



Commander, Navy Installations

Force Protection

Investment Strategy

June 2005



In the Past. . .

- Navy lacked a single overarching Ashore AT/FP vision
- Efforts were installation-centric with no strategy
- Khobar Towers, USS Cole, and 9/11 drove diffusion and divergence of resource application and readiness output
- Attempted to be everywhere, all the time

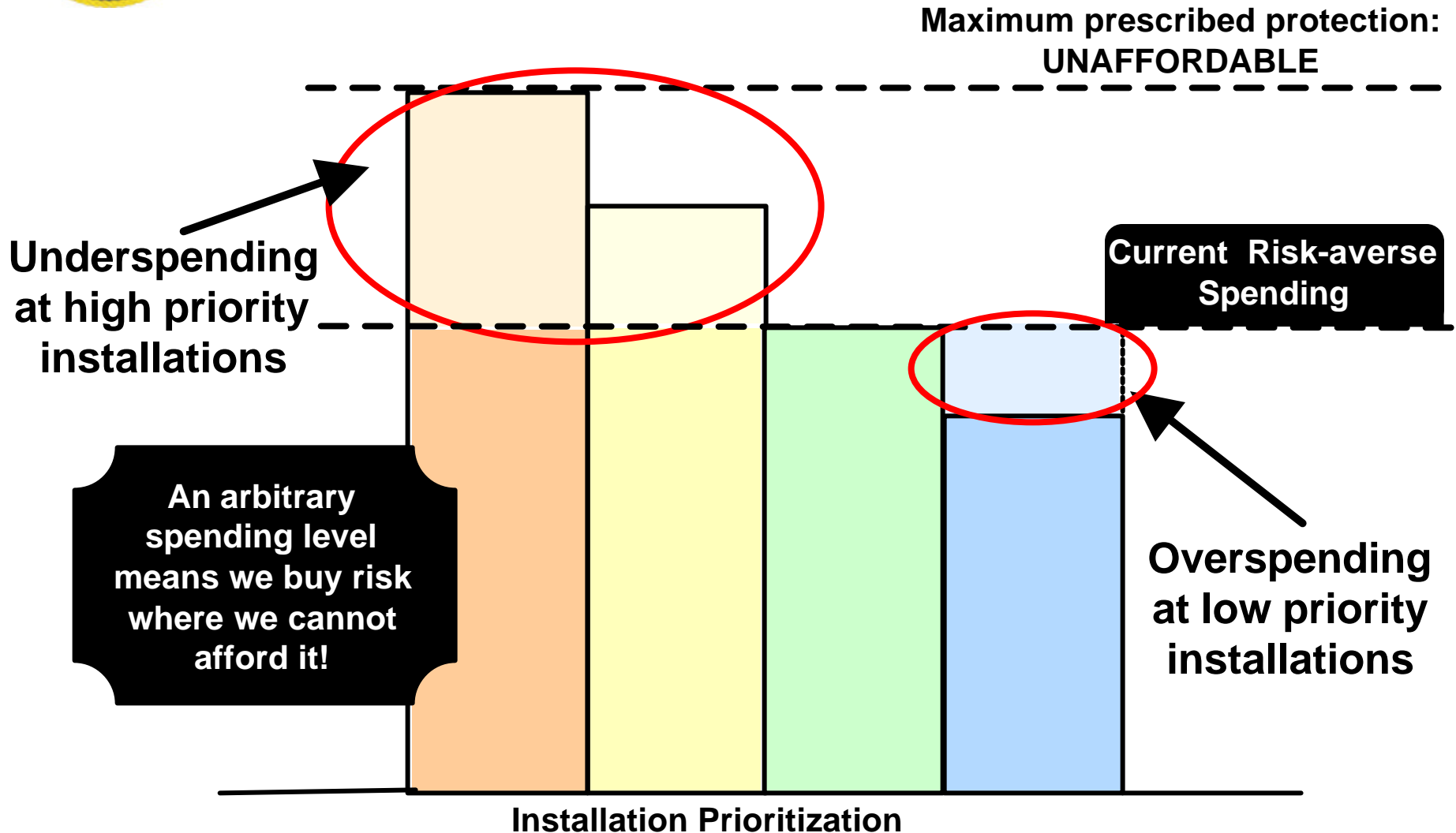
RISK AVERSION has been the approach

**Inconsistency + No Standardization +
Unrealistic Resourcing + Prohibitive cost =**

UNATTAINABLE READINESS



Risk-averse Spending (Notional)



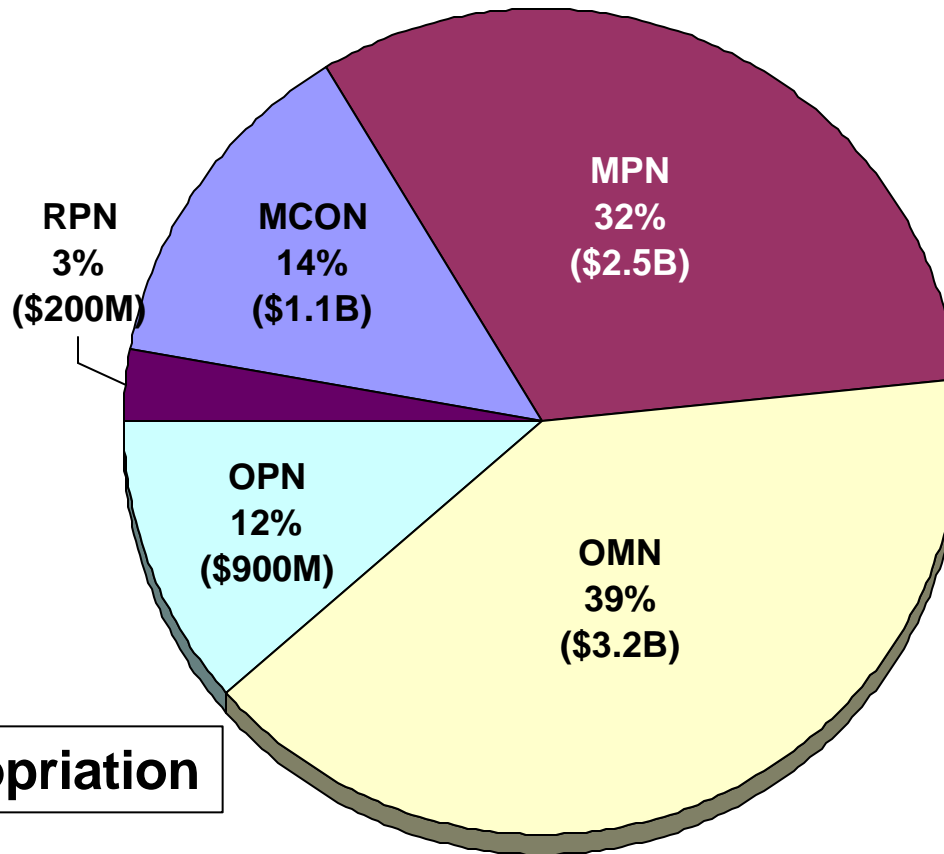


Influences

- *GAO Report, "DOD Efforts to Improve Installation Preparedness Can Be Enhanced with Clarified Responsibilities and Comprehensive Planning"* August 2004
 - Recommends Department of Defense incorporates results-oriented management principles and clarifies installation preparedness related responsibilities
 - *CJCSI 3170.01D Joint Capabilities Integration and Development Systems (JCIDS)*, 12 March 2004
 - Establishes process to identify, assess, and prioritize joint military capability needs
 - *Defense Planning Guidance (FY2004-2009)*
 - Adopt a capabilities based approach to focus on the broad set of capabilities needed to deter, deny and defeat attacks
 - *GAO Report, "Combating Terrorism: Actions Needed to Guide Services' Antiterrorism Efforts at Installations"* November 2002
 - Use assessments of threat, vulnerability, and criticality of assets to form foundation of installation antiterrorism plans and support a risk management approach to resource allocation
 - *Memorandum from Secretary Wolfowitz*, 5 September 2002
 - Policy of the Department is to protect personnel from CBRNE attacks, to respond to these attacks, and to ensure installations are able to continue critical operations and resume essential operations
-



Ashore Combating Terrorism Resources



Total = \$7.9B
(FY05-09)

Appropriation

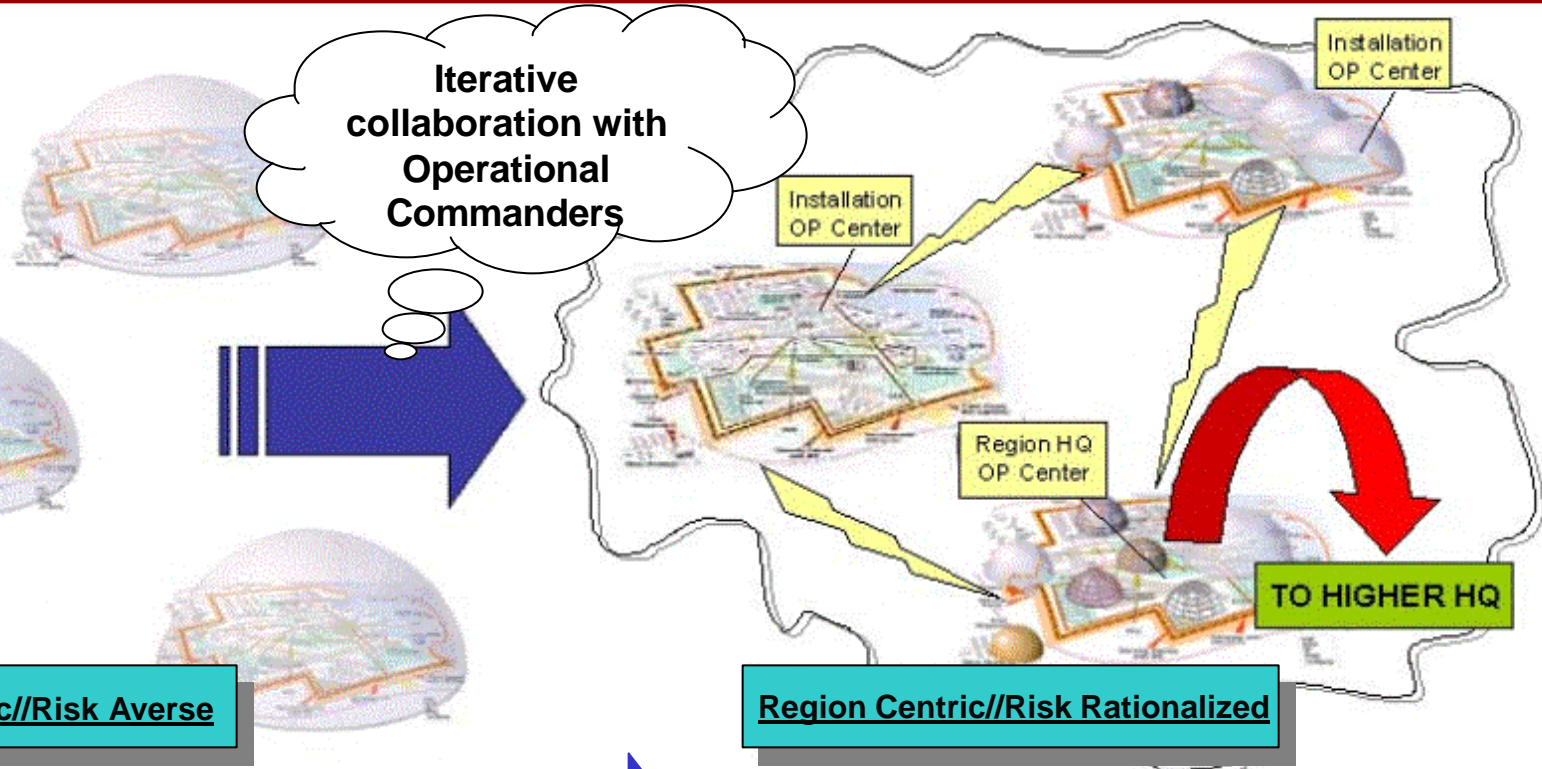


CNI's Vision for Implementing AT/FP at Shore Installations

- **Formalized Framework**
- **Region Centric**
- **Capabilities Based**
- **Risk Management Approach**



Now...Future



Installation-Centric//Risk Averse

- Aversion to risk – Unachievable
- Slow implementation, increased risk
- Prohibitive cost
- Unrealistic resourcing
- DoD/Joint Vision
- Lack of sustainment

Region Centric//Risk Rationalized

- Management of risk
- Quicker implementation
- Balanced resource application based on Navy-wide capability gaps, criticality, vulnerability, threat
- Formalized framework



Strategy

- **Align programs using Joint and General Accounting Office (GAO) guidance**
- **Senior Steering Group (SSG)/SYSCOM Antiterrorism Team (SAT) Process**
 - Requirements Generation
 - Resource/Programming
 - Execution
 - FFC Advisory Role
- **Refine FFC/CNI Requirements Identification Process**
- **Fully Realize Public Safety Shore Installation Model starting with Pilot Program development and execution**
- **Implement Risk-Based Investment Strategy**
- **Develop Region-Centric Programs of Record to include sustainment**



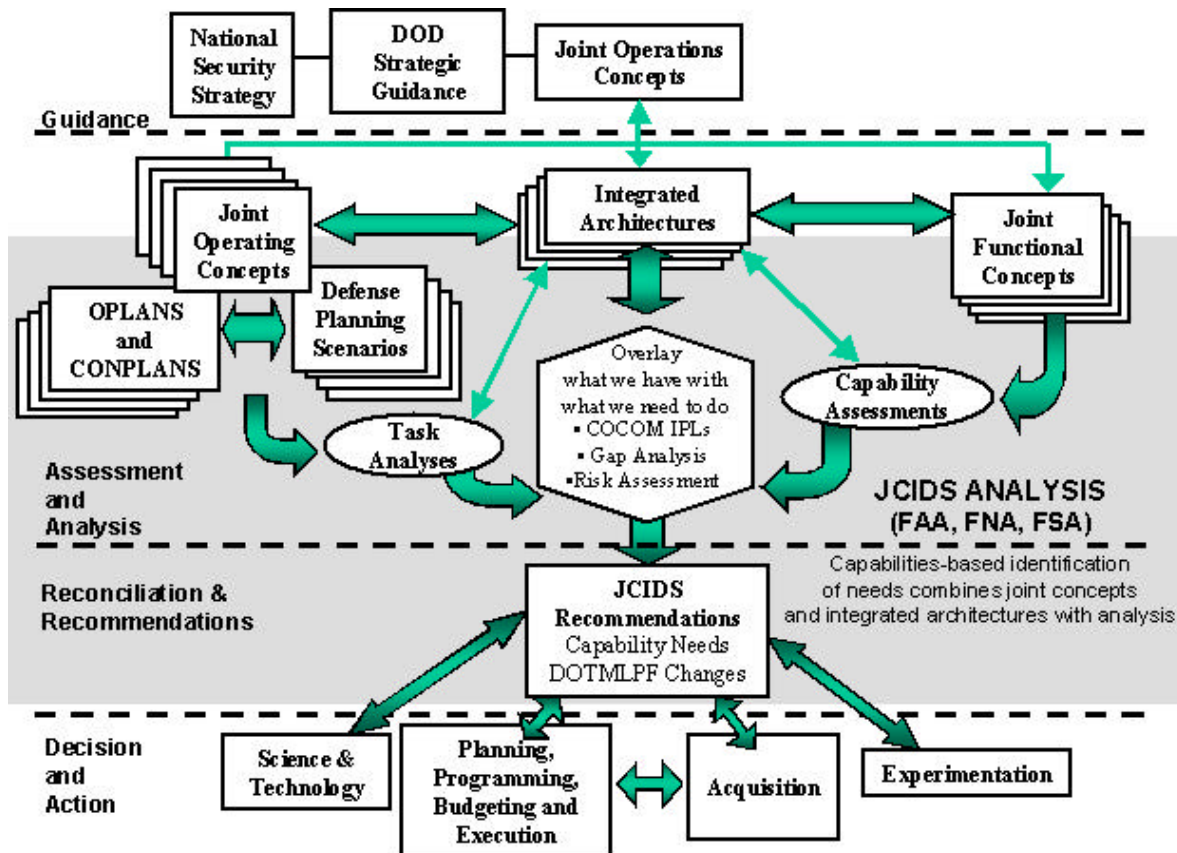
Development of Ashore AT/FP Program Process

Basic Tenets

- **Joint Capabilities Integration Development System (JCIDS)**
 - Joint concept centric capability identification process
 - Assess existing and proposed capabilities
 - Deliver technologically sound sustainable and affordable increments of capability
 - Aligns AT Ashore with the JS Protection FCB



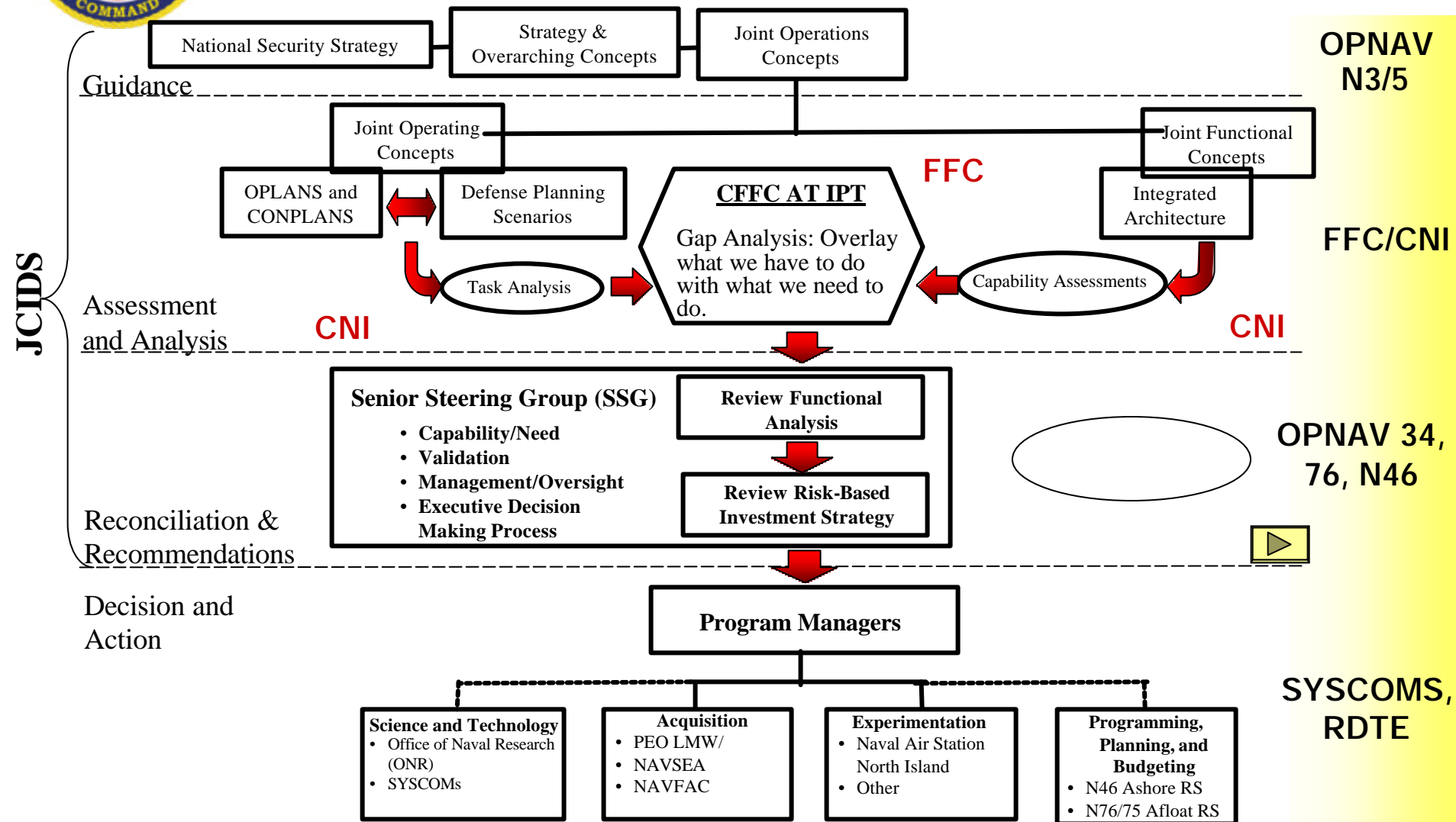
JCIDS Analysis



- A capabilities-based approach that leverages government agencies, industries, and academia
- Allows flexibility in meeting security challenges
- Considers the most effective joint force capabilities and integrates them early in the acquisition process



AT/FP Capabilities & Integration Process



Commander, Navy Installations (CNI) – Supporting the Warfighter



DoD Proposed Ashore AT/FP Architecture

Force Protection

Guidance from DepSecDef Memo (Sept 02) and DoD CBRNE CONOPS (June 03)

1. Protect People
2. Maintain Installation Critical Mission
3. Restore Essential Installation Functions

Detect

Assess/Warn

Defend

Recover

Define
Parameters of
the Hazard ₁

Detect and Identify
Immediate
Hazards ₂

Provide Info to
Decision Makers
And Threatened
Populace ₁

Protect All
People with
Appropriate
Protection ₁

Initiate Response
Through Inst.
Emerg Responders ₂

Restore Services
And Protect Infrastructure
(Consequence. Mgmt) ₁

— Early Warning

— Reconnaissance

— Point Detection

— Medical Surveillance

— Hazard Prediction

— Mass Alert Capability

— Integrate w/Civil Info
Systems

— Prot. Ensembles

— Fixed Site Coll Pro

— Personnel Decon

— Med Pretreatments

— Inst. Emerg Response

— Mobile/Trans. Coll Pro

— Operational Decon

— Medical Diag/Treatment

— Support from Fed/State/Local

— Thorough Decon

— Logistics

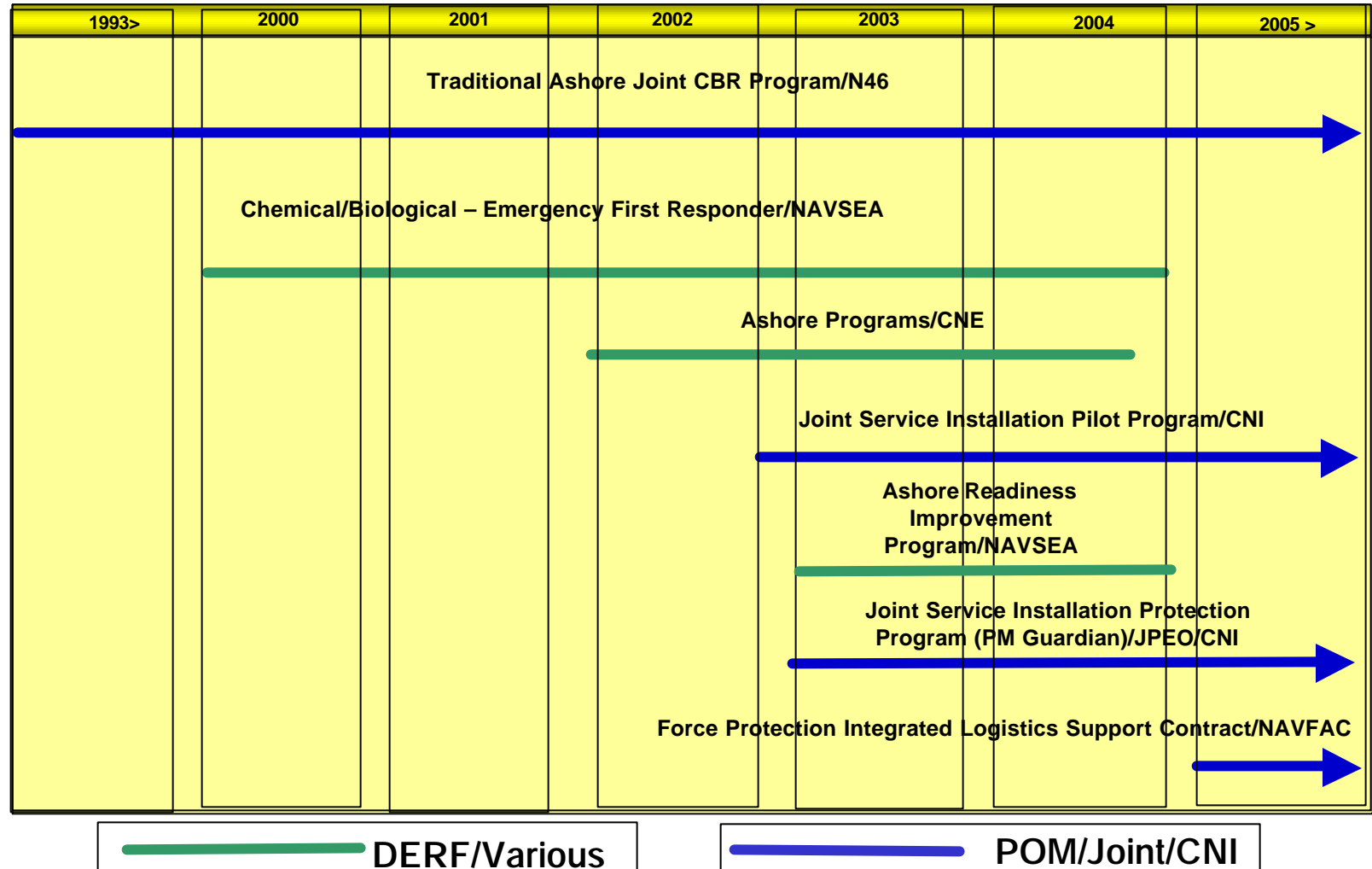


Current Joint/Navy Legacy CBRN Programs

- **Six separate fielding programs**
 - Traditional Ashore Joint CBR Program
 - Chemical/Biological – Emergency First Responder
 - Ashore Programs
 - Ashore Readiness Improvement Program
 - Joint Service Installation Pilot Program
 - Joint Service Installation Protection Program (PM Guardian)
- **One logistics program**
 - Integrated Logistics Support Contract



CBRN Programs



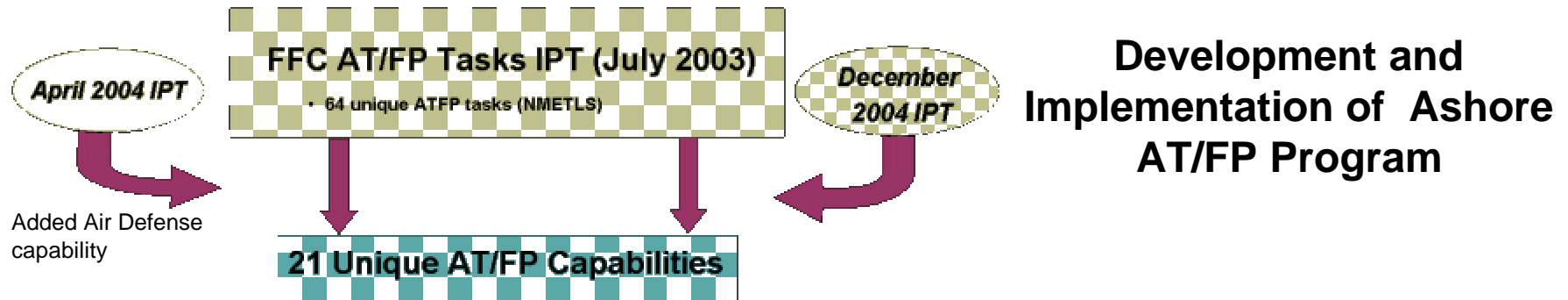


CNI Public Safety Strategy for Joint Programs

- Satisfy Joint Staff Guidance Y
- Align with CB Ashore programs G
- Establish Life Cycle Management Y
- Sustainable and Standardized G
- Assess/quantify impacts of all CBRN equipment being delivered through joint programs (“The Purple Band”) to Regions/Installations to define/de-conflict requirements for Risk Rationalized AT/FP Plan (“The Blue Band”) G



CFFC Program Guidance/Priority

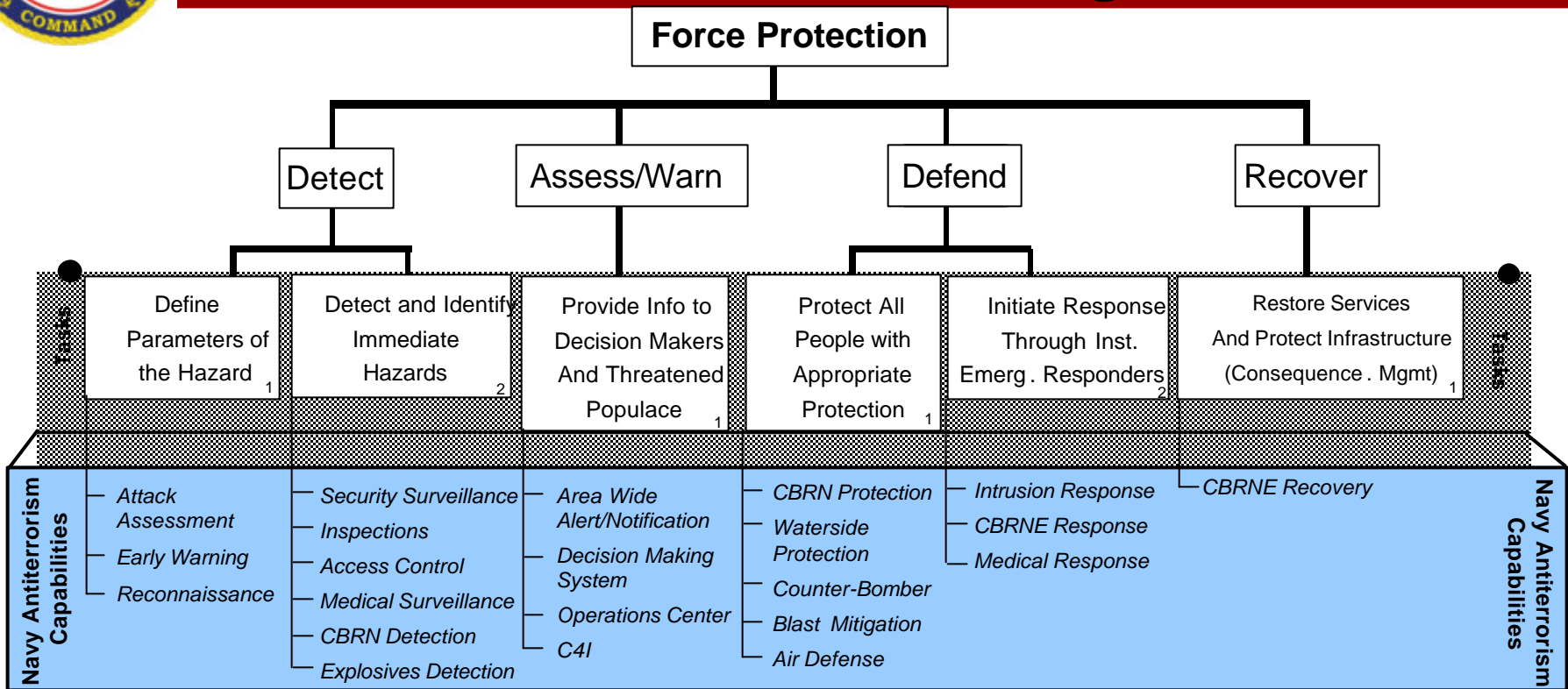


“CFFC (4-Star) Intent”

- Establish and Optimize Cost Effective AT Capabilities
- Manage CBRN Expenditures in Support of Joint Programs
- Pursue Capability Pilot Projects for Implementation
 - Information Management & Base-Wide Alert
 - Physical Security/Access Control
- Identify Full-Spectrum Capabilities to Facilitate Training, Exercise, and Reporting Requirements
- Align AT/FP Capabilities around FFC Requirements IPT Process



Development and Implementation of Navy Ashore AT/FP Program



The operational tasks identified in the JCIDS analysis define what installations are required to do; capabilities are born from the strategic bundling of unified tasks





Development of CNI Risked-Based Model

ASSERTION

Risk can be analyzed and managed by focusing on Threat, Vulnerability and Criticality

Threat (Likelihood of something bad happening)

- What threats exist today and what is the relative likelihood of each threat?
- How would the likelihood of the threat change by investing in specific antiterrorism capabilities?

Vulnerability (Likelihood controls in place will fail)

- If an attack were attempted, what is the likelihood that it is successful?
- By implementing a specific Force Protection capability, what level of reduction in vulnerability to an attack of this type can be expected?

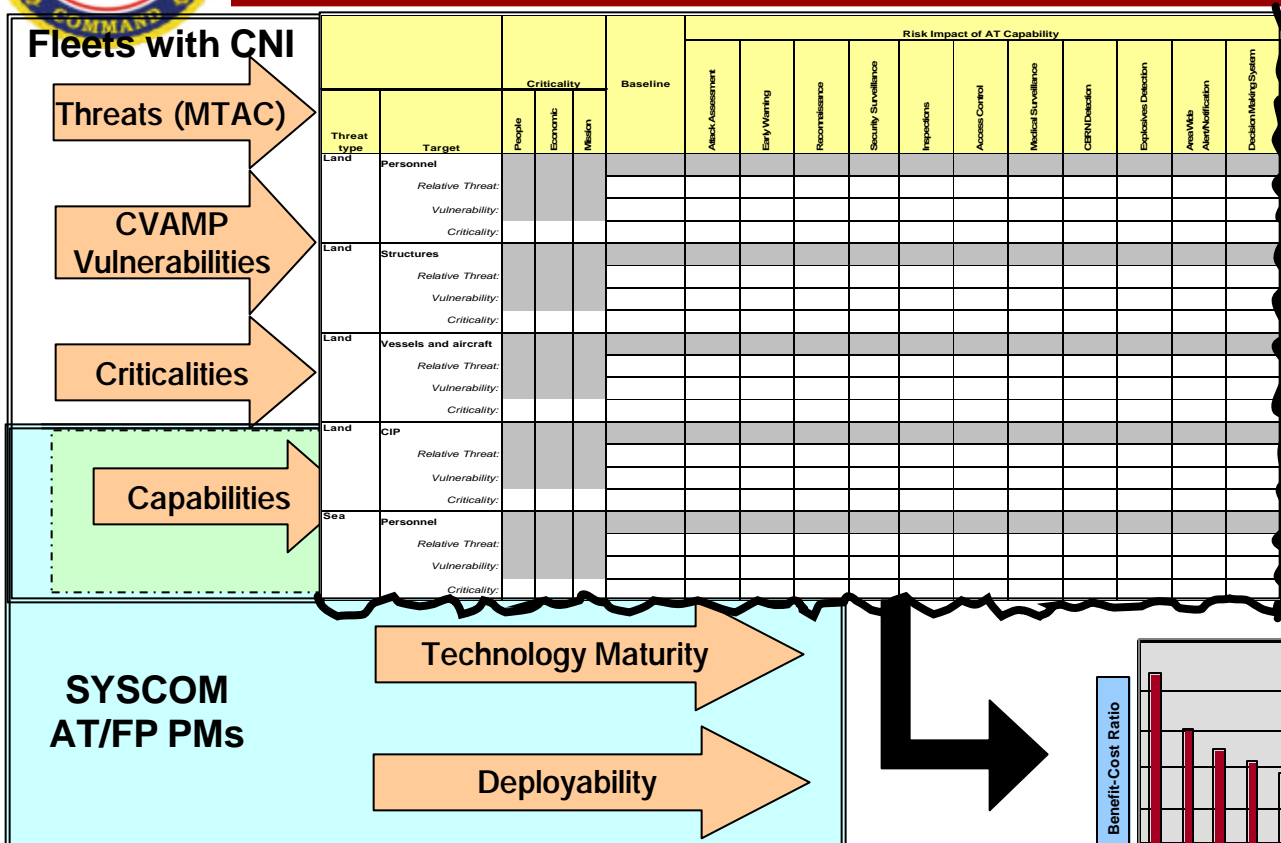
Criticality (Magnitude of the loss)

- If an attack occurs and is successful, what are the consequences to:
 - People
 - Assets and Infrastructure
 - Mission Capability
- } DEPSECDEF memo dtd 5 Sept 2002
- By implementing the specific Force Protection capability, what level of reduction in criticality can be expected?

Joint Publication 1 -02, 12 April 2001 and GAO Report "Further Actions Needed to Coordinate Federal Agencies' Facility Protection Efforts and Promote Key Practices" November 2004



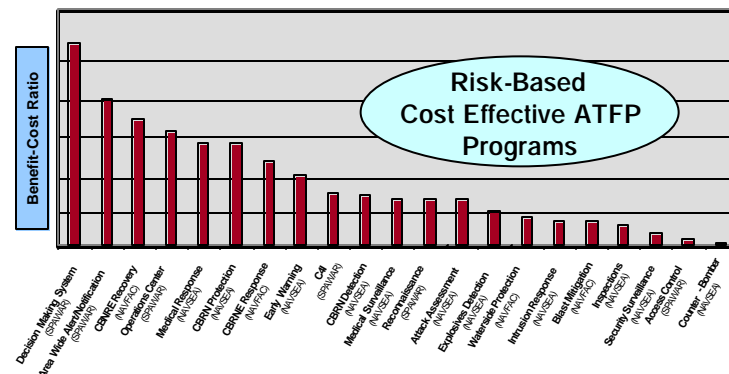
CNI Risk-Based Model



Conducted risk assessments of potential attack scenarios to assess the effectiveness of AT capabilities defined by JCIDS

$$= \frac{\{ [\text{Risk}(T/V/C)_{\text{Baseline}}] - [\text{Risk}(T/V/C)_{\text{With AT Capability}}] \} \times (TF) \times (DF)}{\text{Navy Cost of the AT Capability}}$$

Risk(T/V/C) = Risk measured as a function of Threat, Vulnerability, and Criticality
 TF = Technology maturity factor
 DF = Deployability factor

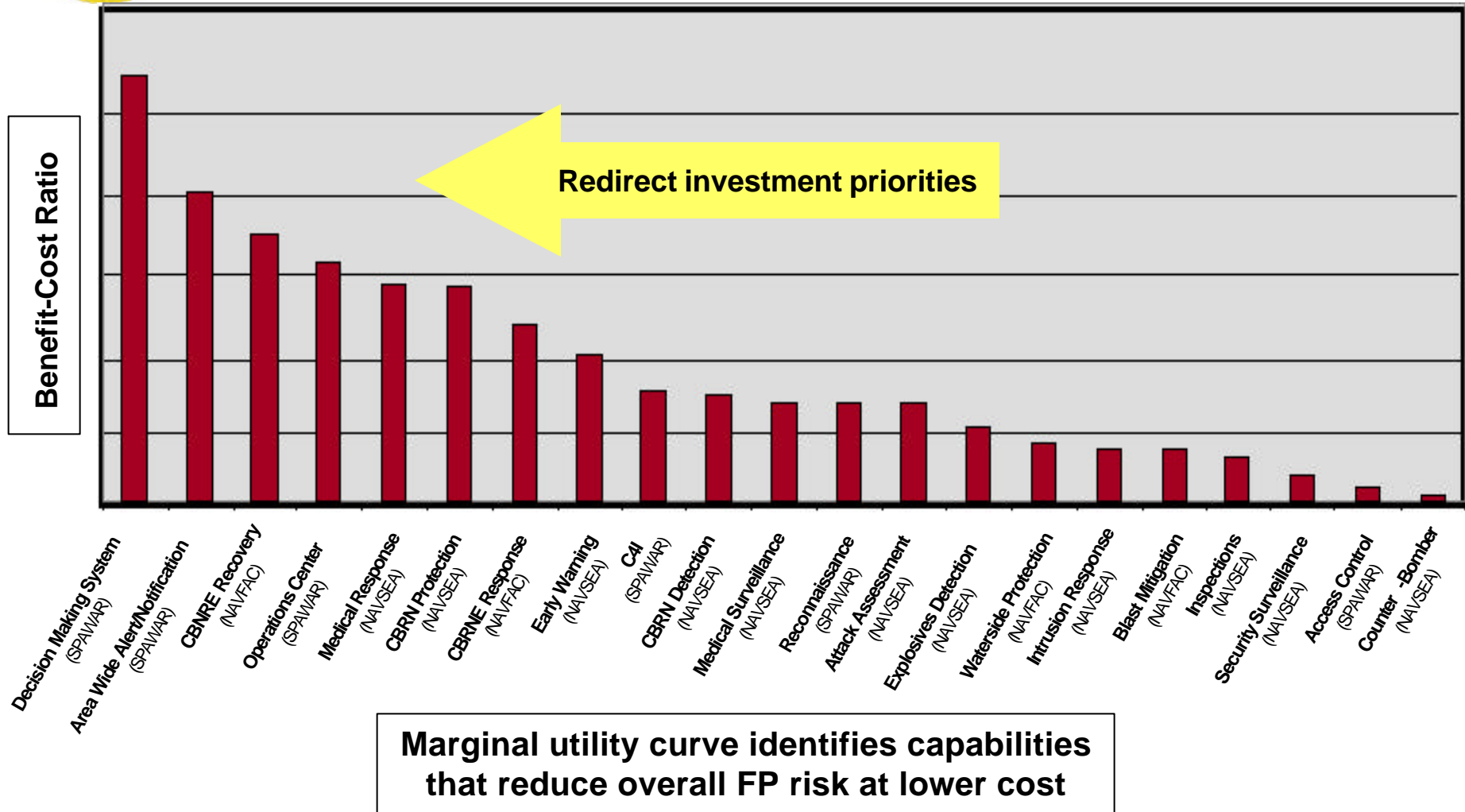


Published in *The Journal of Homeland Security*, February 2004



CNI Risk-Based Model

AT/FP Capabilities Relative Ranking of Benefit-Cost





Required Operational Capabilities (ROC) Construct

ROC 1- Strategic Asset & High Threat Bases (2%)*

- (a) Provides protection for nuclear weapons and supporting systems (SSBNs). Staffed to support current DoD (41M) security requirements.
- (b) Requires special protection requirements due to their high threat environment. Tailored staffing to support fulltime C/D.

ROC 2 - Operational Bases (OB) and critical C4ISR (40%)

- Major fleet homeports home-ported combatant ships and/or tactical aircraft; forward operating locations (OCONUS); critical load-out/ embarkation stations; and critical C4ISR communication stations.

ROC 3 - Sustainment & Support Activities (S&SA) (33%)

- (a) Sustainment - Hospitals, bases with non-combatant ships, non-tactical aircraft, weapons storage facilities, logistics sites, shipyards & maintenance facilities.
- (b) Support - headquarters, and communication sites; and includes any enclave area associated with ROC 2 bases.

ROC 4 - Administrative and Training Activities (A&TA) (25%)

- Reserve bases; R&D centers; administrative facilities/complexes, i.e. BUPERS Millington; recreational areas and MWR facilities; exchanges and commissaries; training sites, e.g. Naval Academy and Staff Colleges; museums and displays like the USS Constitution; and includes any enclave area associated with ROC 2 or 3 bases.

*Percentage of Navy installations



NMET Conditions and Measures

NTA: Establish and Enforce Protection Perimeter

Supported Capability: Access Control

Conditions: CONUS/OCONUS, ashore, afloat, All Weather

Measures:

M1 Yes/No – Force Protection Perimeter established IAW ATFP plan? Scalable from CL1-4

M2 Percent – Perimeter penetrations repelled. Scalable from CL1-4

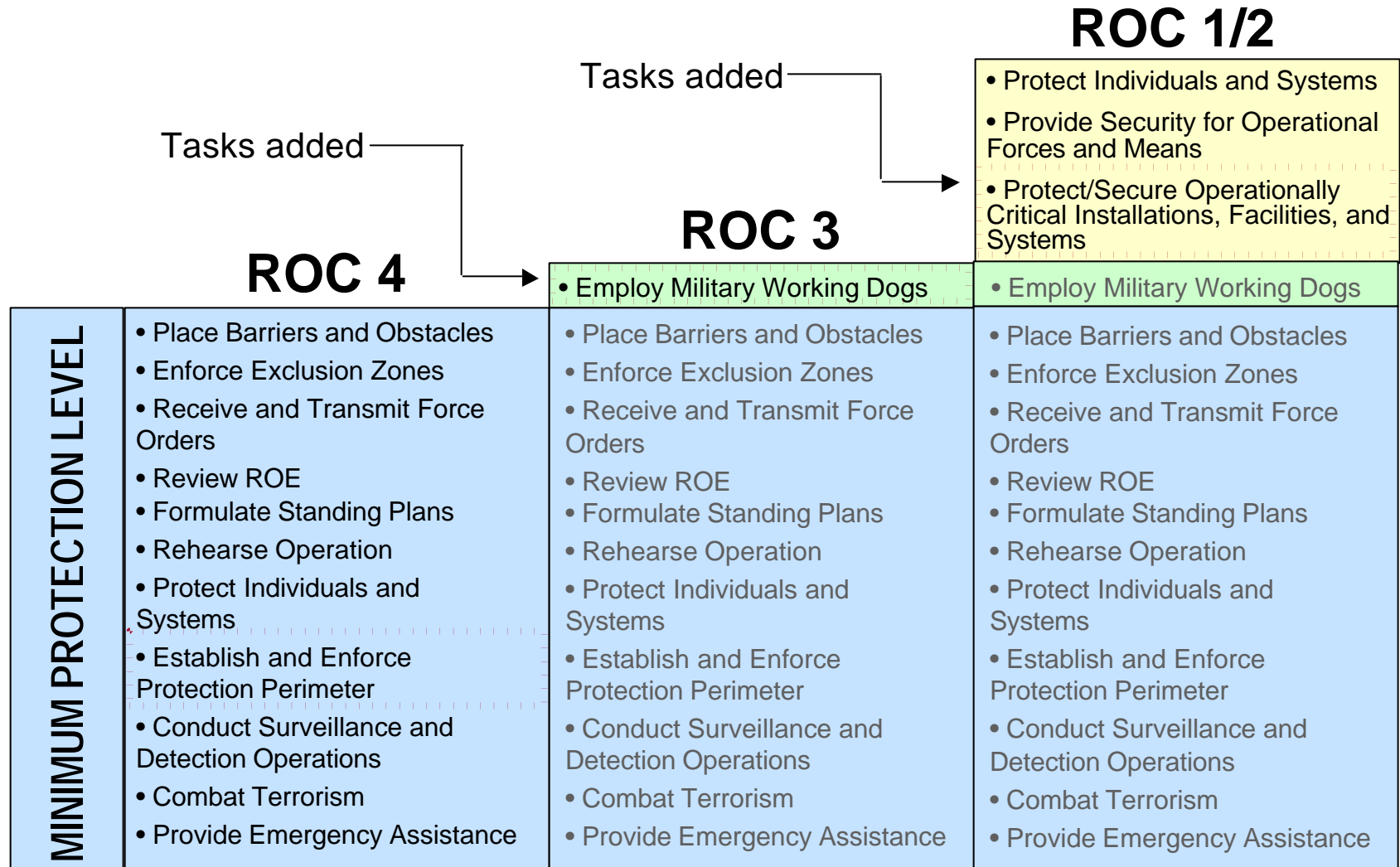
NMETS are the basis of metrics for:

- Material resourcing
- Manpower resourcing
- Readiness tracking
- Training standards for unit exercises
- DOTMLPF



NMET Scalability

ROC – Access Control



Commander, Navy Installations (CNI) – Supporting the Warfighter



NMET Scalability

ROC – Access Control Sample



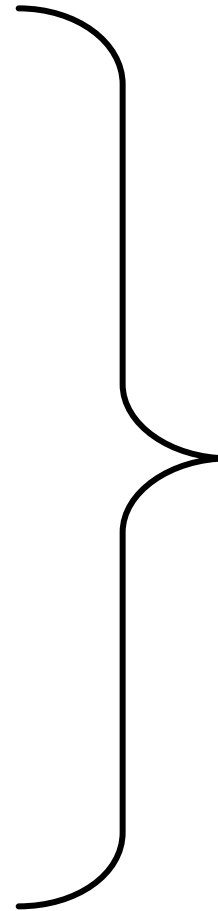
Perimeter Fencing



Military Working Dogs



Critical Infrastructure Protection



ROC 1



ROC 2



ROC 3



ROC 4





Linking ROCs and CLs

with Notional Regional Overlay

The 4X4 Matrix

OBJECTIVES

- Better linking of resources to output
- Enhances costing at various levels of performance
- Improves linkage between mission requirements, known capabilities, and performance
- Better aligns product and service delivery with warfighter/customer expectations
- A better assessment of capability versus requirement supporting management of risk.

$$\text{Productivity} = \frac{\text{Output}}{\text{Cost}}$$

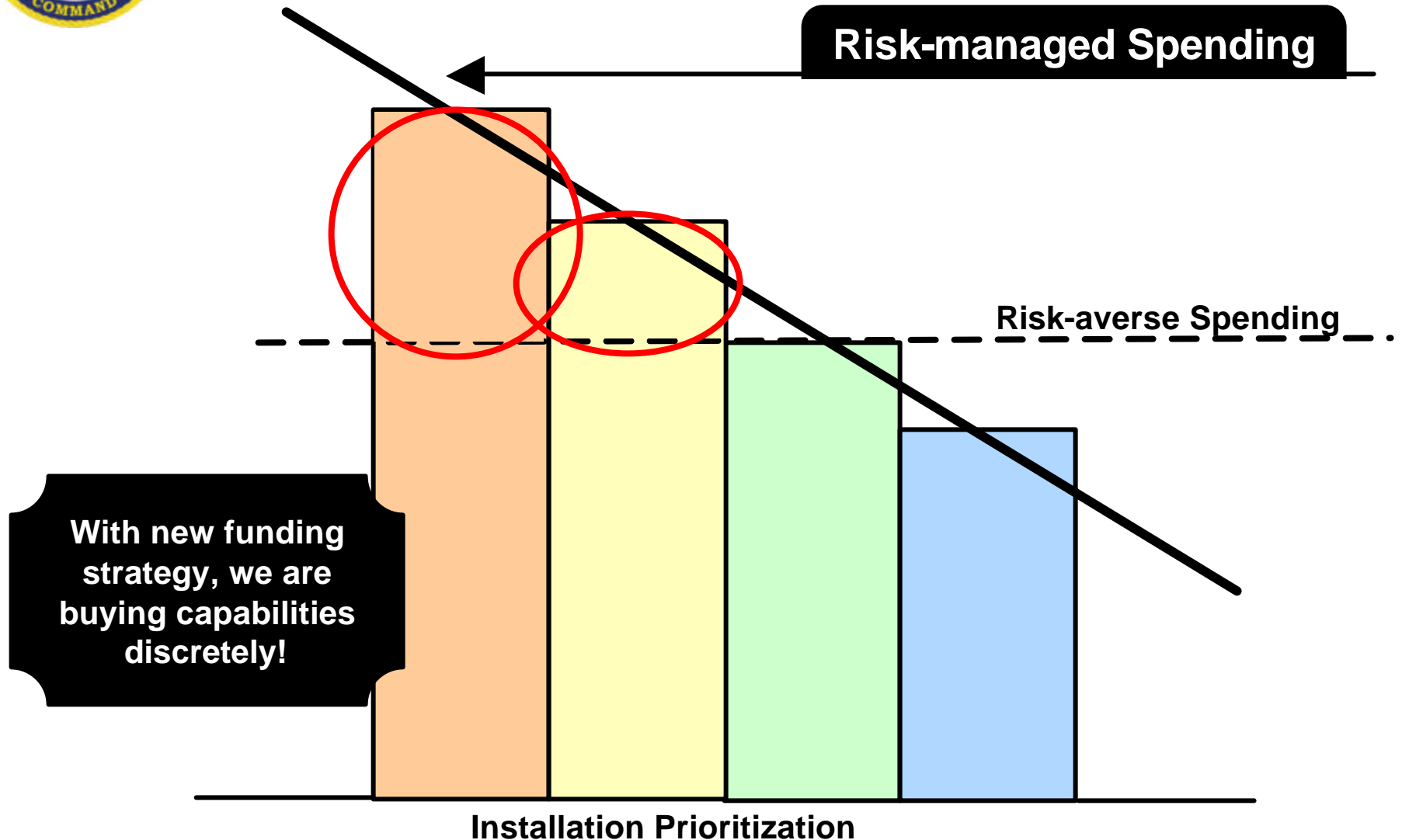
SUSTAINABILITY.....▶					
CAPABILITY▼		Capability Level 1	Capability Level 2	Capability Level 3	Capability Level 4
	ROC1	KINGS BAY			
	ROC2			KEY WEST MAYPORT	
	ROC3			MERIDIAN ATLANTA	
	ROC4			ATHENS	

Joint Staff Installation & Facility Preparedness Guidance (2004)

Commander, Navy Installations (CNI) – Supporting the Warfighter



Risk-managed Spending





Ashore AT Capabilities Package

- Total Cost of Ownership
 - Links Capabilities to Manpower and Sustainment
- Realizes greatest output per unit cost



AT/FP Shore Installation MANNING Capability Levels (CLs)

	CL 1	CL 2	CL 3	CL 4
ROC 1				



AT/FP Shore Installation SUSTAINMENT Capability Levels (CLs)

	CL 1	CL 2	CL 3	CL 4
ROC 1				

AT/FP Capability Area PROCUREMENTS Capability Levels (CLs)

	CL 1	CL 2	CL 3	CL 4
ROC 1				
ROC 2				
ROC 3				
ROC 4				

TOTAL—AT/FP MCP

Capability Levels (CLs)

	CL 1	CL 2	CL 3	CL 4
ROC 1				

Model Realism

- Fleets Requirements Process (July 2003, April & December 2004)
- FFC Verification, Exercising, and SORTS
- N81 Verification, Validation, and Analysis Process Beginning

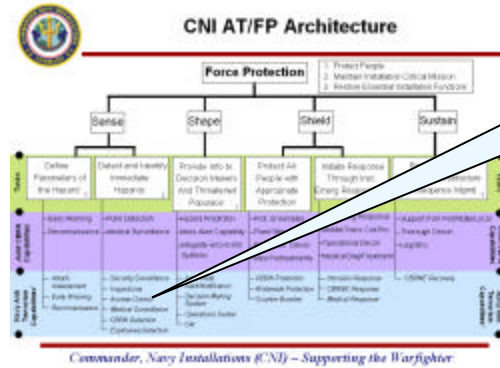
Intangibles Captured

- SAT/SYSCOM Execution Guidance by CNI



Shore Program Centric Solutions

**Moving away
from installation
centric AT/FP solutions
... to Program
Centric AT/FP
Solutions.**



**Access
Control**

Via CNI
w/ SAT

NAVFAC Program Manager

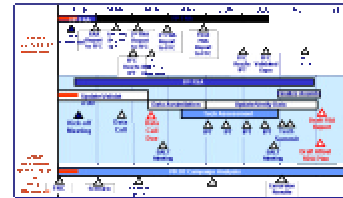


+



N46/CNI
Resourcing FYDP

+



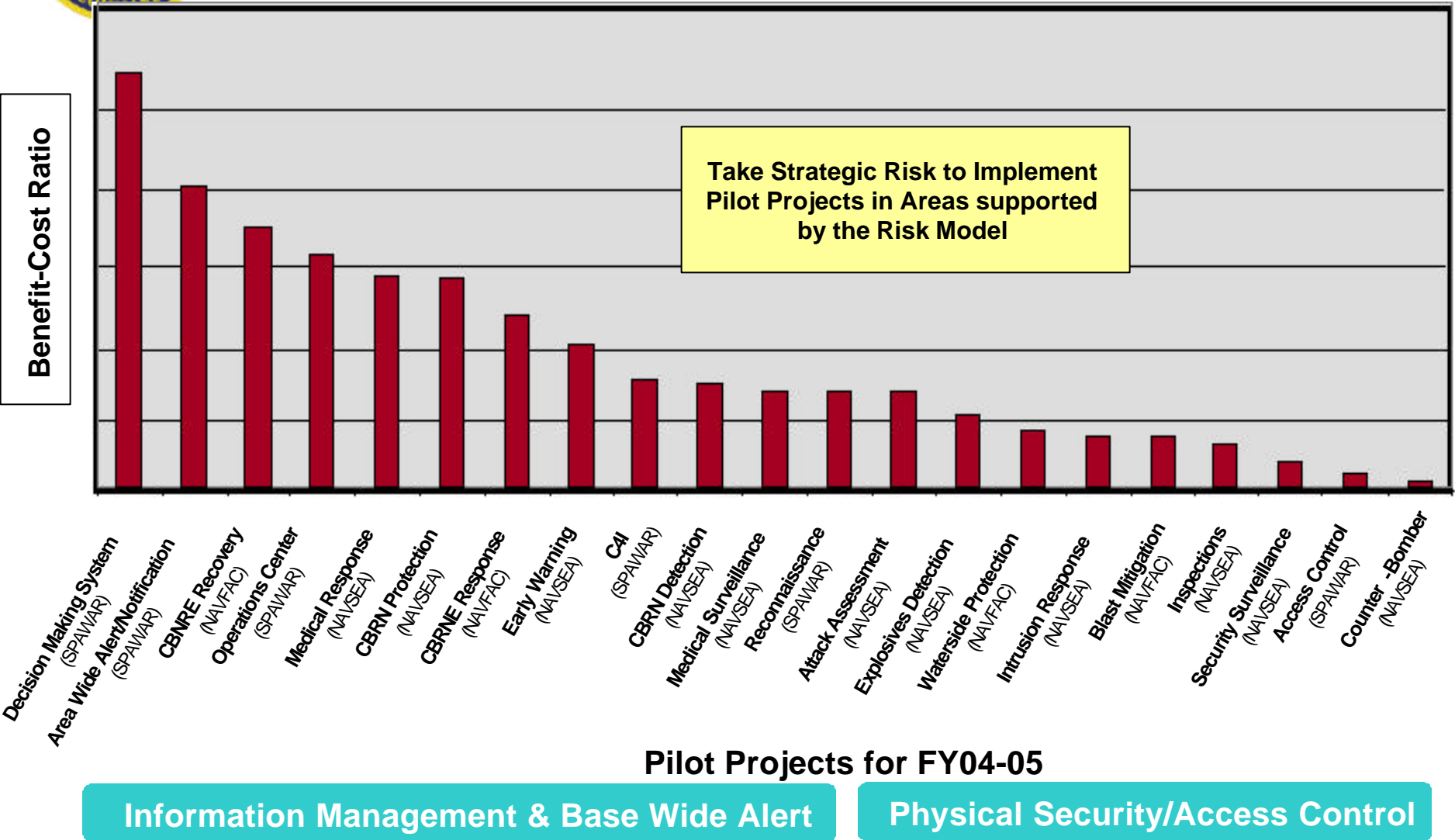
Technology Roadmap
(Under Development)

+

**FFC IPT
Tasks/
(NMETLS)**



CNI Risk Based Investment Model



Commander, Navy Installations (CNI) – Supporting the Warfighter



AT/FP Investment in Pilot Programs

	Information Management & Base Wide Alert		Physical Security / Access Control Pilot			
Location	CNRMA		CNRSE		CNRSW	
	Cost	Date	Cost	Date	Cost	Date
Phase 1 OMN	500,000	February	250,000	January	500,000	February
Phase 2 OMN	1,000,000	August	500,000	August	1,000,000	August
Phase 2 OPN	TBD					
	SPAWAR					



AT/FP Investment in Pilot Programs

Information Management & Base Wide Alert

- CNRMA
- Leave-behind C4I capability (technology and CONOPs) supporting AT/FP and Emergency Management
- Leverage existing technologies
- Evaluate convergence of a solution-set capable of Navy-wide deployment
- Leverage other DoD programs
- Work toward convergence with civil agencies

Physical Security/Access Control

- CNRSE
- Identifying opportunities to reduce required manning/process layering/duplication of effort
 - Smart Gate technology
 - Waterside security system
 - Perimeter intrusion detection system
 - Perimeter surveillance

Physical Security/Access Control

- CNRSW
- Identifying opportunities to reduce required manning/process layering/duplication of effort
 - Vehicle and personnel access control to piers
 - Enclave personnel tracking
 - Incorporating technology for off-hour manning/monitoring
 - Smart Fence with Sensor back-up
 - Access to North Island



The Way Ahead

From Risk Aversion...

- Cannot afford maximum level of protection everywhere
- “Buying” risk since Khobar Towers, but have not known at what cost

...to Risk Management

- Assigning the right resources to the right place at the right time
- Determining how to distribute resources with respect to the marginal costs of each capability



QUESTIONS?